

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 1-8 are pending; and Claims 1, 3, 4, 6, 7, and 8 are amended by the present amendment. Support for non-cosmetic changes to the claims may be found on page 20, lines 6-10, and page 22, lines 12-18 of the Specification. Thus, no new matter is added.

In the outstanding Official Action, the drawings were objected to; Claims 1-8 were rejected under 35 U.S.C. § 112, first paragraph; Claims 1-8 were rejected under 35 U.S.C. § 112, second paragraph; and Claims 1-8 were rejected under 35 U.S.C. § 102(e) as unpatentable over U.S. Publication No. 2002/0168179 to Kikuchi et al. (hereinafter “Kikuchi”).

In reply to the objections to the drawings, Applicants respectfully submit that one of ordinary skill in the art would understand element 1 of Figures 2 and 5 of the Specification to illustrate a recording medium.¹ Figure 5 illustrates a UDF files system layer 42 and a data base layer 43, which correspond to software modules in the system controller.² Applicants respectfully submit that one of ordinary skill in the art would understand that a “file system processing module” and a “database processing module” correspond to the UDF file system layer 42 and the data base layer 43, respectively. Additionally, the claims are amended to recite that a file system contains data “indicating a physical storage location of a file on the recording medium.” Applicants respectfully submit that one of ordinary skill in the art would understand Figures 3 and 4 to illustrate a file system on a recording medium that indicates “a physical storage location of a file on the recording medium.”³ Therefore, Applicants respectfully request that the objection to the drawings be withdrawn.

¹ See Specification at page 7, lines 15-16.

² See Specification page 18, line 17 to page 19, line 2.

³ See Specification at page 20, lines 6-10.

Rejections Under 35 U.S.C. § 112, First Paragraph

The outstanding Official Action rejected Claims 1-8 under 35 U.S.C. § 112, first paragraph. Applicants respectfully submit that the outstanding Official Action fails to state the grounds of rejections for Claims 2 and 5 under 35 U.S.C. § 112, first paragraph. Applicants respectfully request that the rejection of Claims 2 and 5 under 35 U.S.C. § 112, first paragraph be withdrawn. With respect to the rejections of Claims 1, 3, 4, and 6-8 under 35 U.S.C. § 112, first paragraph, Applicants respectfully traverse the rejection.

The outstanding Official Action asserts that the claimed term “a physical storage location of a file” in Claims 1, 4, 7, and 8 is not defined in the Specification. In reply to the rejection, Claims 1, 4, 7, and 8 are amended to recite that a file system contains “data indicating a physical storage location of a file on the recording medium.” Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would understand that a file system recorded on a recording medium contains data that indicates a physical storage location of a file on the recording medium.⁴

The outstanding Official Action asserts that the claimed term “content management information” in Claims 1, 4, 7, and 8 is not defined in the Specification. The Specification discloses that management information, information other than content data, on the DVD disk is necessary to enable playback of content data.⁵ Furthermore, the Specification discloses that before a DVD disk is finalized, intermediate state management information can be recorded on the DVD disk in the area where the file system and VMG area are normally recorded, and contains information necessary to enable playback of content data such as the name, address, and size of each file containing content data.⁶ Therefore, Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would

⁴ See Specification at page 20, lines 16-20, and Figures 3 and 4.

⁵ See Specification page 15, line 21 to page 16, line 2.

⁶ See Specification at page 17, lines 6-12, and Figure 3.

understand that information necessary to enable playback of content data, such as intermediate state management information, corresponds to “content management information.”

The outstanding Official Action asserts that the claim terms “on a file not stated in the file search information from a system being currently mounted” in Claims 3 and 6 is not defined in the Specification. In reply to the rejection Claims 3 and 6 are amended to delete the claim terms “not stated in the file search information” and recite that the data base processing module acquires “attribute information corresponding to a file from a file system being currently mounted.”

The outstanding Official Action asserts that the claim terms “have the current file system processing module demount the current file system” in Claims 3 and 6 is not defined in the Specification. In reply to the rejections, Claims 3 and 6 are amended to recite “the file system processing module demount the current file system” instead of “have the *current* file system processing module demount the current file system.” The Specification discloses that the data base layer 43 issues commands to the UDF file system layer 42 to mount and demount a file system.⁷ The Specification further discloses that to mount a file system means to register a file system in a predetermined register area.⁸ Therefore, Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would understand that to demount a file system would be the opposite of mounting a file system, i.e. un-registering a file system from the predetermined register area.

The outstanding Official Action asserts that the claim terms “generate a new file system on the basis of the read file search information and attribute information and mount the new file system” in Claims 3 and 6 is not defined or supported in the Specification. The Specification discloses that when a file system is successfully mounted, the data base layer 43

⁷ See Specification at page 20, lines 11-16.

⁸ See Specification at page 19, lines 9-18, and page 20, lines 11-14.

can issue a command for acquiring file attribute information that is only found in the file system.⁹ Furthermore, the Specification discloses that the data base layer is capable of generating a file system based on the acquired attribute information. When the data base layer 43 generates the new file system based on the acquired attribute information, the data base layer 43 may then issue a command to the UDF file system layer 42 to mount a new file system based on the attribute information.¹⁰ Therefore, Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would understand the claim terms “generate a new file system on the basis of the file search information and attribute information and mount the new file system.”

Therefore, Applicants respectfully submit that the rejections of Claims 1, 3, 4, and 6-8 under 35 U.S.C. § 112, first paragraph be withdrawn.

Rejections Under 35 U.S.C. § 112, Second Paragraph

The outstanding Official Action rejected Claims 1-8 under 35 U.S.C. § 112, second paragraph. Applicants respectfully submit that the outstanding Official Action fails state the grounds of rejections for Claims 2, 5, and 6. Therefore, Applicants respectfully request the rejection of Claims 2, 5, 6, and 3 under 35 U.S.C. § 112, second paragraph be withdrawn. With respect to the rejections of Claims 1, 4, 7, and 8 under 35 U.S.C. § 112, second paragraph, Applicants respectfully traverse the rejections.

The outstanding Official Action asserts that the claim term “reference” in Claims 1, 4, 7, and 8 is indefinite. The Specification discloses that a file system is information that states the name of each file, recording start address of each file, data recording, etc. Therefore, the file system allows the identification of a physical position of a file on a recording medium

⁹ See Specification at page 25, lines 3-6.

¹⁰ See Specification at page 27, lines 1-10.

with *reference* to the file system.¹¹ Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would understand that a file system processing module reads and writes data from and to the recording medium with “reference to a file system” in Claims 1, 4, 7, and 8.

The outstanding Official Action asserts that the claim term “information” in Claims 1, 4, 7, and 8 is indefinite. In reply to the rejection, Claims 1, 4, 7, and 8 are amended to recite “a file system containing data indicating a physical storage location of a file on the recording medium.”¹² Therefore, Applicants respectfully submit that one of ordinary skill in the art, in light of the Specification, would understand that a file system contains data that indicates a physical storage location of a file on the recording medium.

Therefore, Applicants respectfully request that the rejection of Claims 1, 4, 7, and 8 under 35 U.S.C. § 112, second paragraph, be withdrawn.

Rejections Under 35 U.S.C. § 102(e)

The outstanding Official Action rejected Claims 1-8 under 35 U.S.C. § 102(e) as unpatentable over Kikuchi. Applicants respectfully traverse the rejection.

Claim 1 is directed to a recording/playback device that has a system controlling means for controlling access to the recording medium by a file system processing module, and a data base processing module. The file system processing module reads and writes data to and from the recording medium with reference to a file system containing data indicating the physical storage location of a file on the recording medium. The data base processing module is configured to access the file system processing module with reference to content management information for management of contents stored in the recording medium. The recording medium has file search information indicating a physical recording position of a

¹¹ See Specification at page 20, lines 6-10.

¹² See Specification at page 20, lines 6-10.

file having the content management information stored therein. The database processing module reads the file search information without reference to a file system. Furthermore, the data base processing module registers attribute information corresponding to a file including at least the content management information into the file system with reference to the file search information.

Kikuchi is directed to a recording device that has a main section 604, a D-PRO section 610, and a disk drive 609. The disk drive 609 is responsible for holding a DVD disk, in reading information from the DVD disk.¹³ The D-PRO 610 is responsible for forming error correction data from every block of data read from the disk drive 609 and inserting the corrected data into each block of data.¹⁴ The main section 604 reads each file system data from the disk inserted into the disk drive 609.¹⁵ When data is recorded to the disk, a managing file is read from the disk. If there is no managing file, a new managing file is prepared and developed in the RAM 604a.¹⁶

Claim 1 is distinguishable over Kikuchi as the applied reference fails to disclose a data base processing module that accesses a file system processing module *with reference to content management information*. The outstanding Official Action asserts that the D-PRO 610 section is a data base processing module that accesses the file system processing module with reference to content management information. However, Kikuchi merely describes that the D-PRO 610 device is responsible for reading data from the disk drive 609 and generating error correction data that is inserted to blocks of data that are read from the disk drive. Kikuchi neither discloses nor suggests the D-PRO 610 device inserts error correction data into blocks of data from disk drive 609 *with reference to content management information*. Therefore, Applicants respectfully submit that the D-PRO 610 is not a data base processing

¹³ See Kikuchi at paragraph [0031].

¹⁴ See Kikuchi at paragraph [0034].

¹⁵ See Kikuchi at paragraph [0072].

¹⁶ See Kikuchi at paragraph [0072].

module that accesses a file system processing module *with reference to content management information*.

Additionally, Claim 1 is distinguishable over Kikuchi as the applied reference fails to disclose a database processing module that reads file search information *without referencing the file system*. Kikuchi describes that the management information, VMG file, is stored in the DVD_RTAV subdirectory.¹⁷ When recording data, the main section 604 reads the file system from the disk 100 inserted into the disk drive 609, and if there is free space, the VMG file is read from the disk.¹⁸ Since the VMG file is stored in the DVD_RTAV subdirectory, logic dictates that the main section 604 must reference the file system data to locate the VMG file. Therefore, Kikuchi fails to disclose a database processing module that reads file search information *without referencing the file system*.

Furthermore, Claim 1 is distinguishable over Kikuchi as the applied reference fails to disclose the data base processing module *registering attribute information* corresponding to a file including at least the content management information *into the file system*. Kikuchi merely describes that if there is no managing file on the disk, a new managing file is prepared and developed in the RAM 604a. Kikuchi neither discloses nor suggests that the managing file prepared in the RAM 604a is *registered into the file system*.

Additionally, Kikuchi describes that managing information may be recorded into a data area on the disk.¹⁹ Kikuchi indicates that data area includes management information such as the video manager information, movie AV file information, and original program chain information.²⁰ However, Kikuchi neither discloses nor suggests the data area including management information contains data *indicating a physical storage location of a file on the recording medium*. Therefore, the data area on the disk in Kikuchi is not a file system

¹⁷ See Kikuchi at paragraph [0037] and Figure 2.

¹⁸ See Kikuchi at paragraph [0072].

¹⁹ See Kikuchi at paragraph [0096], and Figure 17.

²⁰ See Kikuchi at paragraph [0097].

because the data area does not contain data *indicating a physical storage location of a file on the recording medium*. Therefore, as logic dictates, recording management information in the data area is not *registering attribute information into a file system*.

Therefore, Applicants respectfully submit that Kikuchi fails to disclose all the limitations of Claim 1 as amended. Applicants respectfully request that the rejection of Claim 1, and claims depending therefrom, under 35 U.S.C. § 102(e) be withdrawn.

As Claims 4, 7, and 8 recite subject matter analogous to Claim 1, Applicants respectfully submit that Kikuchi fails to disclose all the limitations of Claims 4, 7, and 8. Therefore, Applicants respectfully request that the rejection of Claims 4, 7, and 8, and the claims depending therefrom, under 35 U.S.C. § 102(e) be withdrawn.

Consequently, in view of the present response, no further issues are believed to be outstanding in the present application, and the present application is believed to be in condition for formal allowance. A Notice of Allowance for Claims 1-8 is earnestly solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Bradley D. Lytle
Attorney of Record
Registration No. 40,073

Customer Number
22850

Tel: (703) 413-3000
Fax: (703) 413 -2220
(OSMMN 03/06)

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